

PCT



ORGANISATION FÜR GEISTIGES EIGENTUM
Internationales Büro



INTERNATIONALE ANMELDUNG VERÖFFENTLICHT NACH DEM VERTRAG ÜBER DIE
INTERNATIONALE ZUSAMMENARBEIT AUF DEM GEBIET DES PATENTWESENS (PCT)

<p>(51) Internationale Patentklassifikation ⁷ : F03D 7/02</p>	<p>A1</p>	<p>(11) Internationale Veröffentlichungsnummer: WO 00/31413 (43) Internationales Veröffentlichungsdatum: 2. Juni 2000 (02.06.00)</p>
<p>(21) Internationales Aktenzeichen: PCT/EP99/07655 (22) Internationales Anmeldedatum: 12. Oktober 1999 (12.10.99) (30) Prioritätsdaten: 198 54 683.1 26. November 1998 (26.11.98) DE 199 20 504.3 5. Mai 1999 (05.05.99) DE (71)(72) Anmelder und Erfinder: WOBEN, Aloys [DE/DE]; Argestrasse 19, D-26607 Aurich (DE). (74) Anwalt: GÖKEN, Klaus, G.; Eisenführ, Speiser & Partner, Martinistrasse 24, D-28195 Bremen (DE).</p>		<p>(81) Bestimmungsstaaten: AU, BR, CA, IN, JP, NO, NZ, TR, US, europäisches Patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE). Veröffentlicht <i>Mit internationalem Recherchenbericht.</i></p>
<p>(54) Title: AZIMUTHAL DRIVING SYSTEM FOR WIND TURBINES (54) Bezeichnung: AZIMUTANTRIEB FÜR WINDENERGIEANLAGEN (57) Abstract Wind turbines are generally provided with an active driving system for orienting them according to the wind direction. This driving system rotates the wind-turbine nacelle so that the rotor blades are oriented in the wind direction. The driving system used for this orientation generally consists of an azimuthal driving system which is arranged together with the corresponding azimuthal bearings between the top of the tower and the nacelle. In small-size wind turbines, an adjustable driving system is sufficient, while larger wind turbines are provided with a plurality of azimuthal driving systems. The purpose of the present invention is to improve the azimuthal driving system for wind turbines in order to create an azimuthal driving system having a simple structure, to ensure a regular load distribution for each azimuthal driving system and to avoid unwanted torque variation in individual driving systems. This invention essentially relates to a wind turbine comprising a nacelle having a rotor with at least one blade arranged therein, wherein said wind turbine also includes an unit for displacing the nacelle in order to place the rotor in a desired orientation in the wind direction. The driving member of this displacement unit consists of a three-phase asynchronous motor which is supplied with a three-phase current in order to displace the nacelle and which is partially or completely supplied with a direct current during the nacelle inactive period.</p> <div data-bbox="609 743 854 993" data-label="Figure"> </div>		